

INFORMATION DISCLOSURE STATEMENT

Applicant : Steven F. Bolling, et al.
App. No. : 10/706,346
Filed : November 12, 2003
For : CANNULAE HAVING A REDIRECTING
TIP
Examiner : Unknown
Group Art Unit : 3763

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 178 references. Copies of disclosed U.S. patents and publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references listed, are enclosed.

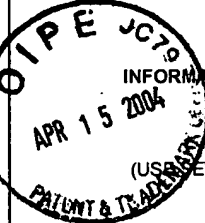
This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 12, 2004

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. ORQIS.007A	APPLICATION NO. 10/706,346
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	6,685,621	02/03/04	Bolling, et al.			
	2	6,610,004	8/26/03	Viole et al.			
	3	6,558,356	7/1998	Barbut			
	4	6,514,226	02/04/03	Levin et al.			
	5	6,488,662	12/03/02	Sirimanne			
	6	6,428,464	08/06/02	Bolling			
	7	6,390,969	5/21/02	Bolling et al.			
	8	6,387,037	05/15/02	Bolling, et al.			
	9	6,371,935	04/16/02	Macoviak et al.			
	10	6,299,575	10/09/01	Bolling			
	11	6,287,608	09/11/01	Levin et al.			
	12	6,200,260	03/13/01	Bolling			
	13	6,245,045 B1	6/2001	Stratienko			
	14	6,228,052 B1	5/2001	Okada et al.			
	15	6,224,540	5/01/01	Lederman et al.			
	16	6,221,103	4/24/01	Melvin			
	17	6,190,408	2/20/01	Melvin			
	18	6,183,411	2/06/01	Mortier et al.			
	19	6,085,754	7/11/00	Alferness et al.			
	20	6,059,760	05/09/00	Sandmore et al.			
	21	6,044,845	04/04/00	Lewis			
	22	5,964,694	10/12/99	Siess et al.			
	23	5,941,813	8/24/99	Sievers et al.			
	24	5,911,685	6/15/99	Siess et al.			
	25	5,851,174	12/22/98	Jarvik et al.			
	26	5,824,070	10/20/98	Jarvik			
	27	5,807,311	09/15/98	Palestrant			

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*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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	28	5,785,686	7/1998	Runge, Thomas M.			
	29	5,749,855	05/12/98	Reitan			
	30	5,746,575	05/05/98	Westphal et al.			
	31	5,584,804	12/17/96	Klatz et al.			
	32	5,776,111	07/07/98	Tesio			
	33	5,562,595	10/08/96	Neisz			
	34	5,571,093	11/05/96	Cruz et al.			
	35	5,554,136	09/10/96	Luther			
	36	5,533,958	6/9/96	Wilk			
	37	5,522,800	06/04/96	Crocker			
	38	5,514,073	5/7/96	Miyata et al.			
	39	5,511,958	04/30/96	Chen et al.			
	40	5,505,710	4/1996	Dorsey, III			
	41	5,503,615	04/30/96	Goldstein			
	42	5,486,159	01/23/96	Mahurkar			
	43	5,472,417	12/05/95	Martin et al.			
	44	5,453,084	09/26/95	Moses			
	45	5,453,076	09/26/95	Kiyota et al.			
	46	5,437,601	8/1/95	Runge			
	47	5,433,731	7/18/95	Hoegnelid et al.			
	48	5,429,584	07/04/95	Chiu			
	49	5,413,549	5/9/95	Leschinsky			
	50	5,403,291	04/04/95	Abrahamson			
	51	5,278,230	01/03/95	Mahurkar			
	52	5,376,113	12/27/97	Jansen et al.			
	53	5,374,239	12/20/94	Mischenko			
	54	5,352,180	10/04/94	Candelon et al.			
	55	5,346,458	09/13/94	Affeld			

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	56	5,332,403	07/26/94	Kolff			
	57	5,318,518	06/07/94	Plechinger et al.			
	58	5,300,113	04/05/94	Arpesella et al.			
	59	5,290,227	3/1/94	Pasque			
	60	5,273,518	12/28/93	Lee et al.			
	61	5,267,940	12/07/93	Moulder			
	62	5,263,978	11/23/93	Kaufman et al.			
	63	5,211,659	05/18/93	Strimling et al.			
	64	5,176,619	01/05/93	Segalowitz			
	65	5,171,207	12/15/92	Whalen			
	66	5,169,379	12/08/92	Freed et al.			
	67	5,169,378	12/08/92	Figuera			
	68	5,147,388	09/15/92	Yamazaki			
	69	5,147,281	09/15/92	Thornton et al.			
	70	5,133,744	07/28/92	Ramos Martinez			
	71	5,131,905	07/21/92	Grooters			
	72	5,129,878	07/14/92	Takano et al.			
	73	5,116,564	05/26/92	Jansen et al.			
	74	5,098,370	03/24/92	Rahat et al.			
	75	5,092,844	03/03/92	Schwartz et al.			
	76	5,087,247	02/11/92	Horn et al.			
	77	5,089,017	02/18/92	Young et al.			
	78	5,069,662	12/03/91	Bodden			
	79	5,059,167	10/19/91	Lundquist et al.			
	80	5,041,098	08/20/91	Loiterman et al.			
	81	5,020,516	06/04/91	Biondi et al.			
	82	4,995,857	02/26/91	Arnold			

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	83	4,995,856	02/26/91	Heindl et al.			
	84	4,944,745	07/31/90	Sogard et al.			
	85	4,994,078	02/19/91	Jarvik			
	86	4,968,293	11/06/90	Nelson			
	87	4,957,504	09/18/90	Chardack			
	88	4,927,407	05/22/90	Dorman			
	89	4,925,452	05/15/90	Melinyshyn et al.			
	90	4,908,012	03/13/90	Moise et al.			
	91	4,906,229	03/06/90	Wampler			
	92	4,902,273	02/20/90	Choy et al.			
	93	4,902,272	02/20/90	Milder et al.			
	94	4,895,150	01/23/90	Isaacson et al.			
	95	4,883,462	11/28/89	Williamson et al.			
	96	4,872,874	10/10/89	Taheri			
	97	4,861,330	08/29/89	Voss			
	98	4,838,889	06/13/89	Kolff			
	99	4,822,357	04/18/89	Forster et al.			
	100	4,771,765	09/20/88	Choy et al.			
	101	4,759,760	07/26/88	Snapp Jr.			
	102	4,756,302	07/12/88	Portner et al.			
	103	4,719,921	01/19/88	Chirife			
	104	4,697,574	10/6/87	Karcher et al.			
	105	4,690,134	09/01/87	Snyders			
	106	4,688,998	08/25/87	Olsen et al.			
	107	4,685,446	08/11/87	Choy			
	108	4,666,443	05/19/87	Portner			
	109	4,625,712	12/02/86	Wampler			

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	110	4,611,578	05/27/86	Helmes			
	111	4,573,997	03/04/86	Wisman et al.			
	112	4,569,332	2/11/86	Schiff et al.			
	113	4,552,522	11/12/85	Polaschegg et al.			
	114	4,546,759	10/15/85	Solar			
	115	4,543,087	09/24/85	Sommercom, et al.			
	116	4,522,195	06/11/85	Schiff			
	117	4,459,977	07/17/84	Pizon et al.			
	118	4,457,673	07/03/84	Conley et al.			
	119	4,407,271	10/04/83	Schiff			
	120	4,405,313	09/20/83	Sisley, et al.			
	121	4,384,829	05/24/83	Conely et al.			
	122	4,302,854	12/01/81	Runge			
	123	4,240,409	12/23/80	Robinson et al.			
	124	4,167,046	09/11/79	Portner et al.			
	125	4,154,227	05/15/79	Krause et al.			
	126	4,143,616	03/13/79	Bible			
	127	4,134,402	01/16/79	Mahurkar			
	128	4,135,496	01/23/79	Chazov et al.			
	129	4,080,958	3/19/78	Bregman et al.			
	130	4,077,394	03/07/78	McCurdy			
	131	4,051,840	10/4/77	Kantrowitz et al.			
	132	4,047,849	09/13/77	Clay			
	133	4,034,742	07/12/77	Thoma			
	134	4,004,299	01/25/77	Runge			
	135	3,964,479	06/22/76	Boag et al.			
	136	3,939,820	02/24/76	Grayzel			

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	137	3,885,251	05/27/75	Pedrosa			
	138	3,835,864	9/17/79	Rasor et al.			
	139	3,692,018	09/19/72	Goetz et al.			
	140	3,592,184	07/13/71	Watkins et al.			
	141	3,017,885	1/19/62	Robicsek			
	142	2,935,068	05/30/60	Donaldson			
	143	2,876,769	03/10/59	Cordova			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	144	2 174 151A	01/10/85	UK				
	145	SU 1,303,165 A2	1/19/85	Russia				
	146	0,232,074	01/22/87	Europe				
	147	0 405 749 A1	05/25/90	EPO				
	148	0 533 432 A1	03/24/93	EPO				
	149	WO 94/05347	03/17/94	WO				
	150	WO 97/15228	05/01/97	WO				
	151	WO 98/14225	03/10/97	PCT				
	152	WO 98/34676	08/13/98	PCT				
	153	WO 99/19010	04/22/99	PCT				
	154	WO 99/42156	08/26/99	PCT				
	155	WO 00/61207	10/19/00	PCT				
	156	WO 00/76577	12/21/00	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	157	JAMA, January 8, 1968. Vol. 203. No 2, Initial Clinical Experience with Intra-aortic Balloon Pumping in Cardiogenic Shock. PP 113-118
	158	Article: A Mechanical Auxiliar Ventricle. PP M340-344.

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	159	Article: Effect of Stationary Guiding Vanes on Improvement of the Washout Behind the Rotor in Centrifugal Blood Pumps: PP M220-224
	160	Article: Concepts in the Application of Pneumatic Ventricular Assist Devices for Ischemic Myocardial Injury. PP 162-168
	161	Article: Long-Term Left Ventricular Assist Device Use Before Transplantation: PP M530-M534
	162	Article: In Vitro Characterization of a Magnetically Suspended Continuous Flow Ventricular Assist Device: PP M359-M360
	163	Article: Estimation of Left Ventricular Function in Patients With a Left Ventricular Assist device: M544-551
	164	Article: Long Term Follow Up of Survivors of Postcardiotomy Circulatory Support. Ruzevich et al.; 4535, A.S.A.I.O. Transactions 34 (1988) April-June, No. 2, Hagerstown, MD, USA. PP 116-124
	165	Article: Hemodynamic Effects of the Concomitant Use of Intra-Aortic Balloon Pumping and Venoarterial Bypass without Oxygenation in Cardiogenic Shock. Takamoto et al. Intra-Aortic Pumping & Venoarterial Bypass. Vol. 19. No. 3. May-June 1972. PP 244-248.
	166	Article: Mechanical Cardiopulmonary Support During Arteriography and Surgical Correction of Coronary Insufficiency Producing Myocardial Infarction with Cardiogenic Shock; Carlson et al. Journal of the Association for the Advancement of Medical Instrumentation. Vol. 6, No. 3. May-June 1972; PP 244-248.
	167	Article: The Sterotomy Hemopump, A Second Generation Intraarterial Assist Device. PP M218-220, 223.
	168	Article: Transarterial Closed-Chest Left Ventricular (TaCLV) Bypass. PP 386-390.
	169	Article: Implantable Left Ventricular Assist Device. PP 1522-1533.
	170	Article: Effects of Partial and Complete Unloading of The Failing Left Ventricle by Transarterial Left Heart Bypass. PP 865-872.
	171	Article: Hydrodynamic Properties of a New Percutaneous Intra-aortic Axial Flow Pump. Reitan et al. ASAIO Journal 2000. pp. 323-328.
	172	The Journal of Heart and Lung Transplantation: Mechanical and Biological Support, Article: Bridge to Transplantation with the CardioWest Total Artificial Heart: The International Experience 1993 to 1995, Vol. 15, No. 1, Part 1, PP 94-99.
	173	US Patent Application Publication No. 2002/0111577 Sirimanne, et al. published August 15, 2002.
	174	US Patent Application Publication No. 2002/0188166 Viole, et al. published December 12, 2002.
	175	US Patent Application Publication No. 2002/0188167 Viole, et al. published December 12, 2002.
	176	US Patent Application Publication No. 2003/0069468 Bolling, et al. published April 10, 2003.
	177	US Patent Application Publication No. 2003/0144628 Sirimanne published July 3, 2003.
	178	US Patent Application Publication No. 2003/0187367 Odland published October 2, 2003.

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